## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1. (Original) A method for improving one or more physical/chemical characteristics of a <sup>18</sup>F-fluor-deoxy-glucose (<sup>18</sup>F-FDG)-solution, which method comprises the steps of:
- a) provision of a <sup>18</sup>F-fluor-deoxy-glucose (<sup>18</sup>F-FDG)-solution, and
- b) addition of at least one buffer based on a weak acid to the <sup>18</sup>F-fluor-deoxy-glucose (<sup>18</sup>F-FDG)-solution.
- 2. (Currently Amended) The method according to claim 1, wherein the improved physical/chemical characteristic is the ability of the <sup>18</sup>F-FDG-solution to be maintain a radiochemical purity of at least 90% after being autoclaved, thus rendering the solution suitable for medical applications.
- 3. (Original) The method according to claim 1, wherein the improved physical/chemical characteristic is reduced radiolysis in the <sup>18</sup>F-fluor-deoxy-glucose (FDG)-solution.
- 4. (Original) The method according to claim 1, wherein the buffer based on a weak acid, is selected from the group consisting of citrate, acctate, ascorbate and combinations thereof.
- 5. (Original) The method according to claim 4, wherein the pH of the citrate buffer is lower than 5.5, preferably between pH 2 and 5.5.
- 6. (Original) The method according to claim 4, wherein the pH of the acetate buffer is between 3.0 and 5.5.

- 7. (Original) The method according to claim 4, wherein the pH of the ascorbate buffer is between 3.0 and 5.5.
- 8. (Withdrawn) A method of preparing a sterile <sup>18</sup>F-fluor-deoxy-glucose (<sup>18</sup>F-FDG)-solution by autoclaving a the <sup>18</sup>F-fluor-deoxy-glucose (FDG)-solution at a temperature between 110°C and 145°C.
- 9. (Withdrawn) A method of preparing a sterile <sup>18</sup>F-fluor-deoxy-glucose (<sup>18</sup>F-FDG)-solution by autoclaving a <sup>18</sup>F-fluor-deoxy-glucose (FDG)-solution at a temperature between 130°C and 140°C.
- 10. (Withdrawn) A method of preparing a sterile <sup>18</sup>F-fluor-deoxy-glucose (<sup>18</sup>F-FDG)-solution by autoclaving a <sup>18</sup>F-fluor-deoxy-glucose (FDG)-solution at a temperature of 134°C.
- 11. (Withdrawn) The method acording to claim 8, wherein the autoclaving process is performed for a period of 1 to 30 minutes.
- 12. (Withdrawn) The method according to claim 8, wherein the autoclaving process is performed for a period of 1 to 10 minutes.
- 13. (Withdrawn) The method according to claim 8, wherein the autoclaving process is performed for a period of 2 to 5 minutes.
- 14. (Withdrawn) A <sup>18</sup>F-fluor-deoxy-glucose (<sup>18</sup>F-FDG)-solution with improved physical/chemical characteristics obtained by the method of claim 1.

- 15. (Withdrawn) A sterile fludeoxyglucose (FDG)-solution obtained by the method of claim 8.
- 16. (New) The method of claim 2, wherein the radiochemical purity of the <sup>18</sup>F-fluor-deoxy-glucose (<sup>18</sup>F-FDG)-solution is at least 95%.